

# Peihong Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

5,630  
citations

147801

31  
h-index

85541

71  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4999  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying the triboelectric series. <i>Nature Communications</i> , 2019, 10, 1427.	12.8	1,107
2	On the Electron Transfer Mechanism in the Contact Electrification Effect. <i>Advanced Materials</i> , 2018, 30, e1706790.	21.0	483
3	Advances in Piezo-Phototronic Effect Enhanced Photocatalysis and Photoelectrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 2000214.	19.5	333
4	Quantifying and understanding the triboelectric series of inorganic non-metallic materials. <i>Nature Communications</i> , 2020, 11, 2093.	12.8	287
5	An Ultra-Low-Friction Triboelectric Electromagnetic Hybrid Nanogenerator for Rotation Energy Harvesting and Self-Powered Wind Speed Sensor. <i>ACS Nano</i> , 2018, 12, 9433-9440.	14.6	286
6	Shape Memory Polymers for Body Motion Energy Harvesting and Self-Powered Mechanosensing. <i>Advanced Materials</i> , 2018, 30, 1705195.	21.0	249
7	Versatile Core-Shell Yarn for Sustainable Biomechanical Energy Harvesting and Real-Time Human-Interactive Sensing. <i>Advanced Energy Materials</i> , 2018, 8, 1801114.	19.5	212
8	Raising the Working Temperature of a Triboelectric Nanogenerator by Quenching Down Electron Thermionic Emission in Contact Electrification. <i>Advanced Materials</i> , 2018, 30, e1803968.	21.0	199
9	A Soft and Robust Spring Based Triboelectric Nanogenerator for Harvesting Arbitrary Directional Vibration Energy and Self-Powered Vibration Sensing. <i>Advanced Energy Materials</i> , 2018, 8, 1702432.	19.5	186
10	Multi-layer monoclinic BiVO <sub>4</sub> with oxygen vacancies and V <sup>4+</sup> species for highly efficient visible-light photoelectrochemical applications. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 187-195.	20.2	180
11	A micro electromagnetic low level vibration energy harvester based on MEMS technology. <i>Microsystem Technologies</i> , 2009, 15, 941-951.	2.0	162
12	Liquid-FEP-based U-tube triboelectric nanogenerator for harvesting water-wave energy. <i>Nano Research</i> , 2018, 11, 4062-4073.	10.4	143
13	Honeycomb Structure Inspired Triboelectric Nanogenerator for Highly Effective Vibration Energy Harvesting and Self-Powered Engine Condition Monitoring. <i>Advanced Energy Materials</i> , 2019, 9, 1902460.	19.5	133
14	Piezoelectric ZnO thin films for 2DOF MEMS vibrational energy harvesting. <i>Surface and Coatings Technology</i> , 2019, 359, 289-295.	4.8	110
15	Magnetic and microwave absorption properties of self-assemblies composed of core-shell cobalt-cobalt oxide nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3796-3801.	2.8	107
16	High-performance cylindrical pendulum shaped triboelectric nanogenerators driven by water wave energy for full-automatic and self-powered wireless hydrological monitoring system. <i>Nano Energy</i> , 2020, 74, 104937.	16.0	89
17	Complementary Electromagnetic-Triboelectric Active Sensor for Detecting Multiple Mechanical Triggering. <i>Advanced Functional Materials</i> , 2018, 28, 1705808.	14.9	87
18	An Easily Assembled Electromagnetic-Triboelectric Hybrid Nanogenerator Driven by Magnetic Coupling for Fluid Energy Harvesting and Self-Powered Flow Monitoring in a Smart Home/City. <i>Advanced Materials Technologies</i> , 2019, 4, 1900741.	5.8	87

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19	Functional Group Effects on the Photoelectronic Properties of MXene (Sc <sub>2</sub> CT <sub>2</sub> , T = O, F, OH) and Their Possible Photocatalytic Activities. <i>Scientific Reports</i> , 2017, 7, 15095.	3.3	74
20	Design, fabrication and performance of a new vibration-based electromagnetic micro power generator. <i>Microelectronics Journal</i> , 2007, 38, 1175-1180.	2.0	68
21	ZnO thin film piezoelectric MEMS vibration energy harvesters with two piezoelectric elements for higher output performance. <i>Review of Scientific Instruments</i> , 2015, 86, 075002.	1.3	68
22	Magnetic and microwave absorption properties of Ni microcrystals with hierarchical branch-like and flowers-like shapes. <i>Materials Chemistry and Physics</i> , 2013, 142, 119-123.	4.0	51
23	Deposition and characterization of AZO thin films on flexible glass substrates using DC magnetron sputtering technique. <i>Ceramics International</i> , 2017, 43, 4536-4544.	4.8	50
24	Piezo-phototronic Effect Enhanced Responsivity of Photon Sensor Based on Composition-Tunable Ternary CdS <sub>x</sub> Se <sub>1-x</sub> Nanowires. <i>ACS Photonics</i> , 2017, 4, 2495-2503.	6.6	48
25	Modulation of optical and electrical properties of sputtering-derived amorphous InGaZnO thin films by oxygen partial pressure. <i>Journal of Alloys and Compounds</i> , 2014, 615, 636-642.	5.5	44
26	Temperature-dependent differences in wettability and photocatalysis of TiO <sub>2</sub> nanotube arrays thin films. <i>Applied Surface Science</i> , 2015, 356, 546-552.	6.1	44
27	Self-powered droplet manipulation system for microfluidics based on triboelectric nanogenerator harvesting rotary energy. <i>Lab on A Chip</i> , 2021, 21, 284-295.	6.0	39
28	A whirligig-inspired intermittent-contact triboelectric nanogenerator for efficient low-frequency vibration energy harvesting. <i>Nano Energy</i> , 2021, 90, 106576.	16.0	39
29	Microwave anneal effect on magnetic properties of Ni <sub>0.6</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> nano-particles prepared by conventional hydrothermal method. <i>Journal of Magnetism and Magnetic Materials</i> , 2011, 323, 3121-3125.	2.3	37
30	Super-Durable and Highly Efficient Electrostatic Induced Nanogenerator Circulation Network Initially Charged by a Triboelectric Nanogenerator for Harvesting Environmental Energy. <i>ACS Nano</i> , 2021, 15, 6949-6960.	14.6	37
31	Enhanced charge collection and photocatalysis performance of CdS and PbS nanoclusters co-sensitized TiO <sub>2</sub> porous film. <i>Journal of Alloys and Compounds</i> , 2015, 649, 190-195.	5.5	34
32	A pendulum-plucked rotor for efficient exploitation of ultralow-frequency mechanical energy. <i>Renewable Energy</i> , 2021, 179, 339-350.	8.9	29
33	Deposition, characterization and optimization of zinc oxide thin film for piezoelectric cantilevers. <i>Applied Surface Science</i> , 2012, 258, 9510-9517.	6.1	28
34	Microstructure, optical, electrical properties, and leakage current transport mechanism of sol-gel-processed high- $k$ HfO <sub>2</sub> gate dielectrics. <i>Ceramics International</i> , 2016, 42, 6761-6769.	4.8	27
35	Multi-cylinder-based hybridized electromagnetic-triboelectric nanogenerator harvesting multiple fluid energy for self-powered pipeline leakage monitoring and anticorrosion protection. <i>Nano Energy</i> , 2021, 89, 106467.	16.0	25
36	Design, fabrication and characterization of a bistable electromagnetic microrelay with large displacement. <i>Microelectronics Journal</i> , 2011, 42, 992-998.	2.0	24

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37	Contribution of citrulline to the formation of ethyl carbamate during Chinese rice wine production. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2014, 31, 587-592.	2.3	23
38	Ni <sub>3</sub> Zn ferrite octahedral nanoparticles with high microwave permeability and high magnetic loss tangent. Journal of Magnetism and Magnetic Materials, 2013, 344, 101-104.	2.3	22
39	Interfacial modulation and electrical properties improvement of solution-processed ZrO <sub>2</sub> gate dielectrics upon Gd incorporation. Journal of Alloys and Compounds, 2017, 699, 415-420.	5.5	22
40	Preparation and characterization of ZnO microcantilever for nanoactuation. Nanoscale Research Letters, 2012, 7, 176.	5.7	21
41	A ZnO thin-film driven microcantilever for nanoscale actuation and sensing. International Journal of Smart and Nano Materials, 2013, 4, 128-141.	4.2	20
42	Wet releasing and stripping SU-8 structures with a nanoscale sacrificial layer. Microelectronic Engineering, 2009, 86, 2232-2235.	2.4	18
43	Fully integrated micro electromagnetic vibration energy harvesters with micro-patterning of bonded magnets. , 2012, , .		18
44	Single-layer and double-layer microwave absorbers based on Co <sub>67</sub> Ni <sub>33</sub> microspheres and Ni <sub>0.6</sub> Zn <sub>0.4</sub> Fe <sub>2</sub> O <sub>4</sub> nanocrystals. Journal of Magnetism and Magnetic Materials, 2017, 425, 25-30.	2.3	18
45	A Direction Self-Tuning Two-Dimensional Piezoelectric Vibration Energy Harvester. Sensors, 2020, 20, 77.	3.8	18
46	Design, simulation, fabrication and characterization of a micro electromagnetic vibration energy harvester with sandwiched structure and air channel. Microelectronics Journal, 2012, 43, 154-159.	2.0	17
47	A two-dimensional energy harvester with radially distributed piezoelectric array for vibration with arbitrary in-plane directions. Journal of Intelligent Material Systems and Structures, 2019, 30, 1094-1104.	2.5	17
48	A piezoelectric power generator based on axisymmetrically distributed PVDF array for two-dimension vibration energy harvesting and direction sensing. Sustainable Energy Technologies and Assessments, 2021, 44, 101001.	2.7	16
49	High microwave permittivity and resonance "antiresonance electromagnetic behaviors of flake-shaped cobalt microcrystals. Materials Chemistry and Physics, 2015, 159, 173-177.	4.0	15
50	Modification of band offsets of InGaZnO <sub>4</sub> /Si heterojunction through nitrogenation treatment. Journal of Alloys and Compounds, 2015, 647, 1035-1039.	5.5	15
51	Microstructure and Doping/Temperature-Dependent Photoluminescence of ZnO Nanospears Array Prepared by Hydrothermal Method. Nanoscale Research Letters, 2018, 13, 223.	5.7	15
52	Effect of post-annealing on microstructure and piezoelectric properties of ZnO thin film for triangular shaped vibration energy harvester. Surface and Coatings Technology, 2019, 361, 123-129.	4.8	14
53	Microstructure, optoelectrical and pre-strain dependent electrical properties of AZO films on flexible glass substrates for flexible electronics. Surface and Coatings Technology, 2017, 320, 34-38.	4.8	11
54	Enhanced Electromagnetic Wave Absorption Performance of Co <sub>0.5</sub> Zn <sub>0.5</sub> ZIF-Derived Binary Co/ZnO and RGO Composites. Journal of Electronic Materials, 2018, 47, 4910-4918.	2.2	10

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55	Fabrication and dynamic analysis of the electrostatically actuated MEMS variable capacitor. <i>Microsystem Technologies</i> , 2008, 14, 397-402.	2.0	9
56	Electromagnetic self-powered low-level vibration energy scavenger with microelectroplated nickel resonator. <i>Electronics Letters</i> , 2009, 45, 832.	1.0	9
57	A ZnO microcantilever for high-frequency nanopositioning: Modeling, fabrication and characterization. <i>Sensors and Actuators A: Physical</i> , 2013, 194, 75-83.	4.1	9
58	A Tower-Shaped Three-Dimensional Piezoelectric Energy Harvester for Low-Level and Low-Frequency Vibration. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020, 8, 1537.	4.9	9
59	Baking-temperature-modulated optical and electrical properties of HfTiOx gate dielectrics via sol-gel method. <i>Journal of Alloys and Compounds</i> , 2016, 688, 925-932.	5.5	8
60	Development of microelectromechanical systems electromagnetic vibration energy scavengers with a nonlinear electroplated nickel spring. <i>Micro and Nano Letters</i> , 2012, 7, 1173-1175.	1.3	6
61	Electromagnetic bistable microactuator fabricated on a single wafer. <i>Micro and Nano Letters</i> , 2012, 7, 99.	1.3	6
62	Resin-bonded NdFeB micromagnets for integration into electromagnetic vibration energy harvesters. <i>Journal of Zhejiang University: Science C</i> , 2013, 14, 283-287.	0.7	6
63	Effect of ZnS layers on optical properties of prepared CdS/TiO <sub>2</sub> nanotube arrays for photocatalyst. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	6
64	Effect of oxygen partial pressure and transparent substrates on the structural and optical properties of ZnO thin films and their performance in energy harvesters. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2017, 24, 675-680.	4.9	6
65	Determination of optical constant and electrical properties of sputtering-derived HfTiON gate dielectrics. <i>Journal of Alloys and Compounds</i> , 2015, 646, 10-15.	5.5	5
66	Fabrication of Well-Aligned TiO <sub>2</sub> Nanotube Arrays with Outstanding Light-Induced Hydrophilicity Performance. <i>Journal of the Electrochemical Society</i> , 2016, 163, E372-E377.	2.9	5
67	A-to-I mRNA Editing in a Ferric Siderophore Receptor Improves Competition for Iron in <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> . <i>Microbiology Spectrum</i> , 2021, 9, e0157121.	3.0	5
68	Effects of sterilization temperature on the concentration of ethyl carbamate and other quality traits in Chinese rice wine. <i>Journal of the Institute of Brewing</i> , 2014, 120, n/a-n/a.	2.3	4
69	Fabrication and performance of ZnO piezoelectric cantilever for vibration energy harvesting. , 2015, , .		4
70	Enhanced Microwave Absorption Properties of Metal Organic Framework (MOF)-Derived Carbonaceous ZnO Incorporated Reduced Graphene Oxide Composites. <i>Nano</i> , 2019, 14, 1950005.	1.0	4
71	Design of nonlinear springs for wideband magnetic vibration energy harvester. , 2011, , .		3
72	Fabrication and Characterization of Bonded NdFeB Microstructures for Microelectromechanical Systems Applications. <i>Advanced Materials Research</i> , 0, 211-212, 561-564.	0.3	3

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73	A key antisense sRNA modulates the oxidative stress response and virulence in <i>Xanthomonas oryzae</i> pv. <i>oryzicola</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009762.	4.7	3
74	Annealing-Ambient-Dependent Thermal Stability of Ultrathin AlO <sub>x</sub> Films Grown by Metalorganic Chemical Vapor Deposition. <i>Science of Advanced Materials</i> , 2012, 4, 1078-1084.	0.7	2
75	A microelectroplated magnetic vibration energy scavenger for wireless sensor microsystems. , 2010, , .		1
76	Simulation of thermal flying height control slider with built-in contact sensor. <i>Microsystem Technologies</i> , 2012, 18, 1591-1596.	2.0	1
77	A new electroplating mask for deep wet etching on glass. , 2010, , .		0
78	Fabrication and Characterization of a New Bi-Stable Electromagnetic Microrelay. <i>Advanced Materials Research</i> , 2011, 211-212, 605-608.	0.3	0
79	A ZnO Driven Silicon Cantilever for Nanoscale Actuation. <i>Advanced Materials Research</i> , 2012, 486, 23-26.	0.3	0
80	Design and Simulation of Fully Integrated Micro Electromagnetic Vibration Energy Harvester. <i>Applied Mechanics and Materials</i> , 2012, 152-154, 1087-1090.	0.2	0